

INTERNATIONAL SEARCH REPORT

International Application No.
PCT/JP2005/008466

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 B01J23/10 B01J23/63 B01D53/94 B01J37/03

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01J B01D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 12, 5 December 2003 (2003-12-05) & JP 2003 277060 A (TOYOTA MOTOR CORP), 2 October 2003 (2003-10-02) cited in the application abstract	1,8
A	PATENT ABSTRACTS OF JAPAN vol. 2003, no. 04, 2 April 2003 (2003-04-02) & JP 2002 346386 A (IBIDEN CO LTD), 3 December 2002 (2002-12-03) cited in the application abstract	1-8
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

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C document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principles or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

S document member of the same patent family

Date of the actual completion of the international search

2 August 2005

Date of mailing of the international search report

10/08/2005

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	EP 1 516 855 A (TOYOTA JIDOSHA KABUSHIKI KAISHA) 23 March 2005 (2005-03-23) paragraph '0028!; claim 4; figure 1; examples	1-8

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Information on patent family members

International Application No.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 2003277060	A	02-10-2003	NONE	
JP 2002346386	A	03-12-2002	NONE	
EP 1516855	A	23-03-2005	US 2005059547 A1 EP 1516855 A1	17-03-2005 23-03-2005